**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Due Thursday, October 23 Algebra I Quiz # 3 Show all work! Circle your answers!**

Solve for *x* for numbers 1 through 3.

  

4.) Below is part of a calendar that has four dates on it. If the sum of the four dates equals 44, then what are the four dates?

|  |  |
| --- | --- |
| Friday | Saturday |
|  |  |
|  |  |

|  |  |
| --- | --- |
| Friday | Saturday |
|  |  |
|  |  |

5.) What is the sum of three consecutive integers 6.) Twenty-one years ago, Latasha was one-half if the sum of the first and second integers as old as she will be in nineteen years. How is 62 less than three times the third number? old is Latasha?

7.) If Connor were five less than two times his present age, he would be forty one years old. How old is he?

8.) Write an equation of the line which passes through the points (18, –29) and (–18, –47) in slope-intercept form and Standard form and Point Slope form.

Slope intercept form\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Standard form\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Point-Slope form\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Solve using Substitution Method.**

9.) Mr. Dollard gave you a Math test worth 100 points containing 27 questions. There are 3-point and 4-point questions on the test. How many of each type of question are on the test?

**Solve using Substitution Method.**

10.) Bill and Tom were picking up trash along the highway. Together they picked up 54 bags of trash. Six times the number of bags that Bill picked up is 4 less than two times the number of bags Tom picked up. How many bags has each collected?

**Solve system of linear equations below using Substitution method for 11, 12, and 13. Then classify the system as “consistent dependent,” “consistent independent”, or “inconsistent.” Then answer the question about its solutions.**

11.)  

The system of linear equations above is (Circle one):

1. Inconsistent B.) Consistent Dependent C.) Consistent Independent

This means (Circle one): A.) Unique system B.) infinitely many solutions C.) No solution

12.)  

The system of linear equations above is (Circle one):

1. Inconsistent B.) Consistent Dependent C.) Consistent Independent

This means (Circle one): A.) Unique system B.) infinitely many solutions C.) No solution

13.)  

The system of linear equations above is (Circle one):

1. Inconsistent B.) Consistent Dependent C.) Consistent Independent

This means (Circle one): A.) Unique system B.) infinitely many solutions C.) No solution

14.) The points (*k*, 10), (2, 7), and (1, 4) lie on a straight line. Find *k*.

15.) The following system of linear equations has an infinite number of solutions. What is the value of *k*?

 +  = 8 and 6*x* + *ky* = 192